

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A three-dimensional shape measuring system comprising:
a measuring section for measuring a three-dimensional shape of an object by scanning the object;
a display section for displaying information about an area where the scanning has been completed by the measuring section in accordance with a progress of the scanning; and
an imaging section for taking a two-dimensional image of the object, wherein
the display section displays information about an area where the scanning has been completed by the measuring section in accordance with a progress of the scanning by displaying the two-dimensional image of the object and identifiably showing an area of the two-dimensional image where the scanning has already completed as well as an area where the scanning has not completed yet, and
the entire area displayed in the display section is comprehensively measured by the measuring section during scanning.

2. (Original) The three-dimensional shape measuring system according to claim 1, wherein the measuring section includes:
a scanning section for changing a measuring direction; and

a distance measuring section for measuring a distance to the object in each measuring direction of the scanning section; and

the measuring section measures the three-dimensional shape of the object based on the measured distance.

3. (Original) The three-dimensional shape measuring system according to claim 2, wherein the measuring section calculates a distance to each point on the object, based on a flight time of a pulsed light from a transmitting time of a pulsed light to a receiving time of the pulsed light reflected from the object.

Claims 4 and 5 (Canceled)

6. (Currently Amended) [[A]] The three-dimensional shape measuring system according to claim 1, comprising:

~~a measuring section for measuring a three-dimensional shape of an object by scanning the object; and~~

~~a display section for displaying information about an area where the scanning has been completed by the measuring section in accordance with a progress of the scanning, wherein the information displayed is a message image indicating the status of progress of the scanning.~~

7. (Original) The three-dimensional shape measuring system according to claim 6, wherein the message image is an image indicating a degree of progress of the scanning as a percentage.

8. (Currently Amended) A three-dimensional shape measuring system comprising:

- a measuring section for measuring a three-dimensional shape of an object by scanning the object;
- an imaging section for taking an a two-dimensional image of the object including an area to be measured by the measuring section; and
- a display section for displaying the two-dimensional image of the object taken by the imaging section and identifiably showing an area of the two-dimensional image where the scanning has already completed as well as an area where the scanning has not completed yet based on a degree of progress in the measuring section, wherein
the entire area displayed in the display section is comprehensively measured by the measuring section during scanning.

9. (Original) The three-dimensional shape measuring system according to claim 8, wherein the measuring section includes:

- a light source;
- a scanner for scanning the object by deflecting a light from the light source;
- a sensor for receiving a light deflected by the scanner and reflected from the object; and
- a calculating section for calculating a distance to each scanning position of the object based on an output of the sensor.

10. (Original) The three-dimensional shape measuring system according to claim 8, wherein the measuring section includes:

a two-dimensional imaging device;
a scanner for changing an imaging direction of the two-dimensional imaging device;
an outline generating section for generating an image formed by an outline of each image obtained by the two-dimensional imaging device on each scanning position; and
a processing section for generating information with respect to a three-dimensional shape of the object, based on the image generated by the outline generating section.

11. (Original) The three-dimensional shape measuring system according to claim 8, wherein the display section displays the three-dimensional shape which is measured.

12. (Original) The three-dimensional shape measuring system according to claim 8, wherein the display section displays during the scanning by the measuring section.

13. (Original) The three-dimensional shape measuring system according to claim 12, wherein the display section updates display contents a plurality of times during the scanning by the measuring section.

14. (Original) The three-dimensional shape measuring system according to claim 8, further comprising an instructing section for instructing a stop of the measurement by the measuring section during measurement.

15. (Original) The three-dimensional shape measuring system according to claim 14, further comprising:

a storage section for storing a result of a measurement; and
a control section for controlling the measuring section to store a result of a measurement already measured when the stop of measuring is instructed by the instructing section.

16. (Withdrawn) A three-dimensional shape measuring system comprising:
a measuring section for measuring a three-dimensional shape of an object by scanning the object;
an instructing section for instructing a stop of measuring by the measuring section;
a storage section for storing the three-dimensional shape measured by the measuring section before the stop of measuring is executed when the stop of measuring is instructed; and
an inquiry section for inquiring of a user as to whether or not previous measured data are saved when the instructing the stop of measuring by the measuring section is received.

17. (Withdrawn) The three-dimensional shape measuring system according to claim 16, wherein the measuring section scans two-dimensionally the object in an one-way form.

18. (Withdrawn) The three-dimensional shape measuring system according to claim 17, wherein the measuring section scans spirally the object.

19. (Withdrawn) The three-dimensional shape measuring system according to claim 16, wherein the scanning of the measuring section is performed by changing a relative position of the measuring section and the object.

20. (Withdrawn) The three-dimensional shape measuring system according to claim 19, wherein the measuring section includes:

a rotary base for placing the object; and
an imaging device fixed regardless of a rotation of the rotary base; and
the imaging device images for measuring the three-dimensional shape of the object in a predetermined period rotating on the rotary base.

21. (New) The three-dimensional shape measuring system according to claim 1, wherein the measuring portion measures the area displayed by the display portion substantially uniformly.

22. (New) The three-dimensional shape measuring system according to claim 1, wherein the display portion displays all the measuring points prior to the scanning and displays a progress status of the scanning along with the progress of the scanning by changing the display state of the measuring points that were displayed in advance.

23. (New) The three-dimensional shape measuring system according to claim 1, wherein the two-dimensional image of the object in the area where the scanning is finished includes information about a three-dimensional shape based on the measurement result.

24. (New) The three-dimensional shape measuring system according to claim 1, wherein a distance image is displayed for the area where the scanning is finished.